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ATTORNEY DOCKET NO. CONFIRMATION NO.

APPLICATION NO. FILING DATE FIRST NAMED INVENTOR 10/634,847 08/06/2003 Masanori Onuma Q76879 6506 23373 7590 04/15/2005 **EXAMINER** SUGHRUE MION, PLLC LE, THANH TAM T 2100 PENNSYLVANIA AVENUE, N.W. ART UNIT PAPER NUMBER SUITE 800 WASHINGTON, DC 20037 2839

DATE MAILED: 04/15/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	on No.	Applicant(s)		
Office Action Summary		10/634,84	17	ONUMA ET AL.		
		Examiner		Art Unit		
		Thanh-Ta		2839		
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
THE MAIL - Extensions after SIX (6) - If the period - If NO period - Failure to re Any reply re	ENED STATUTORY PERIOD FOR ING DATE OF THIS COMMUNION of time may be available under the provisions of MONTHS from the mailing date of this common for reply specified above is less than thirty (30 for reply is specified above, the maximum staply within the set or extended period for reply of ceived by the Office later than three months afort term adjustment. See 37 CFR 1.704(b).	CATION. of 37 CFR 1.136(a). In no evolunication.) days, a reply within the stat tutory period will apply and wowll, by statute, cause the app	ent, however, may a reply be ti utory minimum of thirty (30) da ill expire SIX (6) MONTHS fron lication to become ABANDONI	mely filed ys will be considered timely. n the mailing date of this communic ED (35 U.S.C. § 133).	cation.	
Status						
1)⊠ Res	consive to communication(s) file	d on <u>16 February 20</u>	<u>05</u> .			
,	This action is FINAL . 2b)⊠ This action is non-final.					
3) Sinc	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
. clos	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition o	f Claims					
4)⊠ Clai	○ Claim(s) <u>1-4</u> is/are pending in the application.					
4a) (4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Clai	Claim(s) is/are allowed.					
6)⊠ CÌai	Claim(s) <u>1-4</u> is/are rejected.					
7)∐ Clai	Claim(s) is/are objected to.					
8)∏ Clai	Claim(s) are subject to restriction and/or election requirement.					
Application P	apers			•		
9) The :	specification is objected to by the	Examiner.				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
	icant may not request that any object					
Repl	acement drawing sheet(s) including	the correction is requir	ed if the drawing(s) is o	bjected to. See 37 CFR 1.1	21(d).	
11) ☐ The	oath or declaration is objected to	by the Examiner. N	ote the attached Offic	e Action or form PTO-15	2.	
Priority unde	r 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
• • • •	l b) ☐ Some * c) ☐ None of:	•				
1.	Certified copies of the priority	documents have bee	en received.		•	
2.	Certified copies of the priority	documents have bee	en received in Applica	tion No		
3.	Copies of the certified copies	of the priority docum	ents have been receiv	red in this National Stage	e	
	application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.						
Attack						
Attachment(s) 1) Notice of R	eferences Cited (PTO-892)		4) Interview Summar	v (PTO-413)		
	raftsperson's Patent Drawing Review (P	TO-948)	Paper No(s)/Mail [Date		
3) Information	Disclosure Statement(s) (PTO-1449 or			Patent Application (PTO-152)		
Paper No(s	s)/Mail Date		6) Other:			

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Swengel, Sr. et al. (3,656,092) in view of Applicant's submitted Prior Art (APA).

Swengel, Sr. et al., figures 4-7, discloses a connecting terminal fitting (16) and elastic wire (10), comprising:

- a terminal fitting (16, 22);
- an electric wire (10);
- a conductive connecting member (24) formed with an insertion hole;
- inserting the electric wire into the insertion hole of the connecting member;
- compressing the connecting member radially inwardly so as to caulk an inserted portion of the electric wire uniformly over a whole periphery thereof;
 and
- welding the connecting member and the terminal fitting (column 3, lines 18-20).

Swengel, Sr. et al. disclose the instant claimed invention as described above except for welding the connecting member and the terminal fitting by applying ultrasonic wave.

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APA, figures 7 and 8, discloses an ultrasonic welding machine (56) having an ultrasonic wave-generating source (57). It would have been obvious to one of ordinary skill in the art at the time the invention was made to provide Swengel, Sr. et al. to have the ultrasonic wave as taught by APA for better welding.

Regarding claim 2, the combination of Swengel, Sr. et al. and APA disclose the connecting member is compressed and shaped by rotary swaging.

Regarding claim 3, figure 7, Swengel, Sr. et al. disclose the connecting member including a first hole portion and a second hole portion which is larger than the first hole in diameter. The electric wire having a core wire (12) covered with an insulating sheath (not shown). The core wire is inserted in the first hole portion and the insulating sheath is inserted in the second hole portion, and the first hole portion and the second hole portion are disposed coaxially with each other. The connecting member is compressed so that the insulating sheath is held in intimate contact with the second hole portion.

3. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Swengel, Sr. et al. and APA as applied to claim 1 above, and further in view of Newman et al. (5,624,287).

Swengel, Sr. et al. discloses the instant claimed invention as described above except for the terminal fitting is provided with a clamping portion.

Newman et al., figure 1, disclose a termination device (20) having a crimp barrel (22), which is read on a clamping portion. It would have been obvious to one of ordinary skill in the art at the time the invention was made to provide Swengel, Sr. et al. Application/Control Number: 10/634,847

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to have the crimp barrel, as taught by Newman et al. for crimping to the conductor insulation.

Response to Arguments

4. Applicant's arguments with respect to claim 1 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanh-Tam T. Le whose telephone number is 571-272-2094. The examiner can normally be reached on 7:30-5:00.
- 6. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, TC Patel can be reached on 571-272-2098. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.
- 7. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TL. 04/12/05. T. Le

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